NIBIB Workshop on

DEFINING THE STATE-OF-THE-ART IN BIOMEDICAL IMAGING: RESEARCH NEEDS FOR THE FUTURE

March 16-18, 2003 University of Mississippi Medical Center Jackson, Mississippi

Program

March 16 (Fairview Bed and Breakfast)

5:30 PM	Reception
6:30 PM	Orientation Dinner
	Welcome – A. Wallace Conerly (UMMC) Opening Remarks – U. S. Representative Roger Wicker (Mississippi) Charge and Objectives – Roderic I. Pettigrew (NIBIB Director)

March 17 (UMMC Conference Facilities)

7:00 AM	Continental Breakfast
8:00 AM	Workshop Opening – Roderic Pettigrew (NIBIB)
8:05 AM	Welcome – US Senator Thad Cochran (Mississippi)
8:15 AM	Opening Remarks – Elias Zerhouni (NIH Director)
8:30 AM	Orientation and Logistics
	Workshop Coordinators – Richard Swaja (NIBIB) and David Dzielak (UMMC)
	Workshop Chairs – Harrison Barrett (Arizona) and Kirby Vosburgh (CIMIT)
9:00 AM	Perspectives on Biomedical Imaging Research and Applications – William Hendee (Wisconsin)
9:30AM	Break

10:00 AM Clinical Needs for Biomedical Imaging – Bruce Rosen (MGH) 10:30 AM Research Needs for Biomedical Imaging – *Michael Vannier (Iowa)* 11:00 AM Multi-Disciplinary Approaches to Biomedical Imaging Research – Philip Alderson (Columbia) 11:30 AM Lunch 12:30 PM Session 1: Image Acquisition – Sensors and Sources Thomas Brady (MGH) *Moderator:* William Moses (LBNL)* Speakers: Britton Chance (Penn) John Gore (Vanderbilt) Gary Glover (Stanford) NIBIB Staff Representative: Peter Kirchner 2:00 PM Break 2:30 PM Session 2: Image Acquisition - Targeted Agents *Moderator:* Henry Wagner (JHU) *Tom Meade (Northwestern)** Speakers: Sam Gambhir (UCLA) Dean Sherry (UT Dallas – Southwestern) Charles Springer (BNL) NIBIB Staff Representative: Richard Swaja 4:00 PM Break 4:30 PM Session 3: Data Reconstruction, Interpretation, and Informatics Maryellen Giger (Chicago) *Moderator:* Ben Tsui (JHU)* Speakers: David Channin (Northwestern) Henry Fuchs (North Carolina) Jay Udupa (Penn) NIBIB Staff Representative: William Heetderks 6:00 PM Adjourn for the day

7:00 PM

Dinner

March 18 (UMMC Conference Facilities)

7:00 AM Continental Breakfast

7:45 AM Agenda for the day – *Conference Coordinators and Chairs*

8:00 AM Session 4: Data Evaluation and Objective Assessment

Moderator: Bruce Davis (NASA – Stennis)

Speakers: Bruce Hillman (UVA)*

Kyle Myers (FDA) Art Toga (UCLA)

Alicia Toledano (Brown)

NIBIB Staff Representative: Mary Pastel

9:30 AM Break

10:00 AM Session 5: Emerging Technologies and Applications

Moderator: Ronald Price (Vanderbilt)

Speakers: David Piwnica-Worms (Washington University)*

Ron Kikinis (BWH)

Richard Robb (Mayo Clinic) Eva Sevick-Muraca (Texas A&M)

NIBIB Staff Representative: John Haller

11:30 AM Lunch

12:30 PM Summary and Recommendations – Session Moderators, Conference

Chairs

1:40 PM The Future of Biomedical Imaging Research – Stanley Baum (Penn)

2:00 PM Adjourn Workshop

^{*} Lead speaker